ABSTRACT OF THE DISCLOSURE

Membrane filter system having at least one vessel and plurality of individually removable aerated filter modules arranged in the at least one vessel and structured and arranged for a suspension to be filtered to flow through in parallel. At least one filter module has a plurality of membrane units. A plurality of spaces are formed in the at least one vessel by plates arranged cross-wise with respect to a direction of flow through the filter modules. At least one feed space for a common supply of the suspension to be filtered to the plurality of filter modules and at least one permeate space for common discharging of permeate are provided. A feed pump supplies the suspension to be filtered into the at least one feed space. At least one feed distribution space is positioned laterally at least partially around the at least one feed space. Additionally, the at least one feed space has a feed distribution opening and an aeration device around which the suspension to be filtered flows. The feed distribution opening is arranged so suspension to be filtered is guided into the at least one feed space from the at least one feed distribution space cross-wise with respect to the direction of flow through the filter modules.